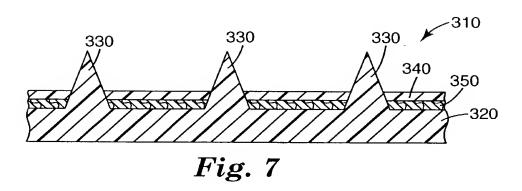
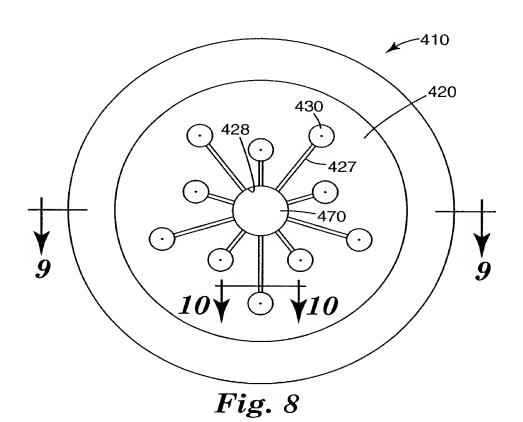
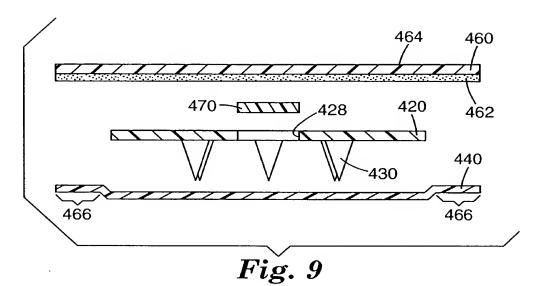
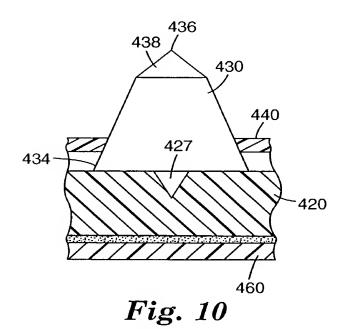


Docket. 57453US002 Sheet 3 of 7

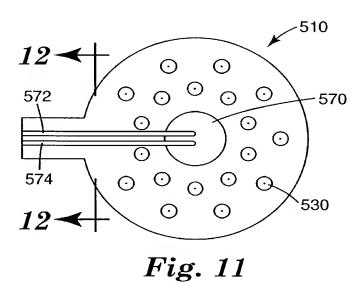








Title MICRONEEDLE DEVICES AND METHODS OF MANUFACTURE
Applicant(s): Fleming et al.
Serial No.: 10/051,745 Filed. January 15, 2002
Express Mail No.: EV 073 732 029 US Docket: 57453US002
Sheet 5 of 7



572 574 540 520

Fig. 12

Title: MICRONEEDLE DEVICES AND METHODS OF MANUFACTURE

Applicant(s): Fleming et al.
Serial No. 10/051,745 Filed January 15, 2002 Docket 57453US002
Express Mail No.: EV 073 732 029 US Sheet 6 of 7

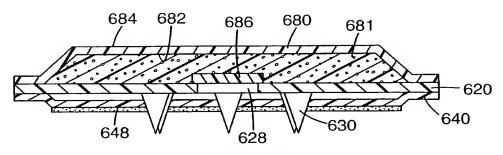


Fig. 13

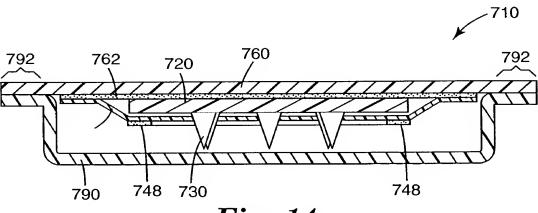


Fig. 14

Title MICRONEEDLE DEVICES AND METHODS OF MANUFACTURE

Applicant(s): Fleming et al. Serial No. 10/051,745

Filed: January 15, 2002

Express Mail No.: EV 073 732 029 US

Docket: 57453US002 Sheet 7 of 7

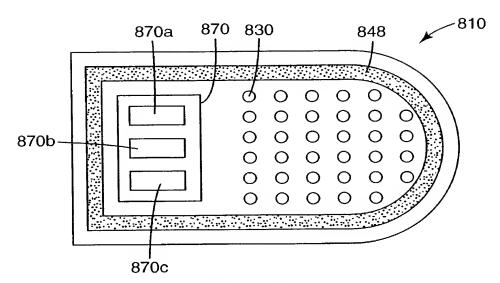


Fig. 15

